

# Notice of Allowability

Application No.

10/646,029

Examiner

Adeel Haroon

Applicant(s)

YEH, MING-SHUAN

Art Unit

2618

## -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the amendment filed 5/4/07.
2. ☒ The allowed claim(s) is/are 1,3-16 and 18-20.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☒ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying Indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

## Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_
7. ☒ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

## **DETAILED ACTION**

### **EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Albert Penilla on 6/26/07.

The application has been amended as follows:

2. Claims 16, 17, and 19 have been amended as follows:

16. (Currently amended) A switchable high frequency bandpass filter comprising: a high frequency signal generator controlled by a switch signal, and having a first frequency generation circuit and a second frequency generation circuit; a buffer electrically connected to the high frequency signal generator; a switchable LC resonator electrically connected to the buffer; and a switch signal input interface circuit electrically connected to the switchable LC resonator and receiving the switch signal, wherein when the switch signal is at a predetermined higher voltage level, the first frequency generation circuit is enabled to generate a first signal; when the switch signal is at the

Art Unit: 2618

predetermined lower voltage level, the second frequency generation circuit is enabled to generate a second signal having a frequency twice that of the first signal; and wherein the switchable LC resonator comprises, an inductive unit coupled between an input node and ground; a first capacitive unit coupled between the input node and ground such that the inductive unit and the first capacitive unit construct a first-state parallel LC resonant circuit; and a second capacitive unit coupled between the input node and ground such that the inductive unit, the first capacitive unit, and the second capacitive unit construct a second-state parallel LC resonant circuit.

Claim 17 has been cancelled.

19. (Currently amended) The switchable high frequency bandpass filter according to claim 16 ~~[[17]]~~, wherein the inductive unit comprises: a first inductor having a terminal coupled to an external DC voltage source and another terminal coupled to both of the input node and an output node; and a first capacitor having a terminal coupled to the external DC voltage source and another terminal coupled to ground; the first capacitive unit comprises: a second capacitor having a terminal coupled to both of the input node and the output node, and another terminal coupled to ground; and the second capacitive unit comprises: a third capacitor having a terminal coupled to both of the input node and the output node; a diode having a P electrode for receiving the switch signal and an N electrode, the P electrode being coupled to another terminal of the third capacitor and the switch signal input interface; a fourth capacitor coupled in

Art Unit: 2618

series between the N electrode of the diode and ground; and a resistor coupled in series between the N electrode of the diode and ground.

***Allowable Subject Matter***

3. Claims 1, 3-16, and 18-20 are allowed.

***Conclusion***


Any inquiry concerning this communication or earlier communications from the examiner should be directed to Adeel Haroon whose telephone number is (571) 272-7405. The examiner can normally be reached on Monday thru Friday, 8:30 a.m. - 5:00 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nay Maung can be reached on (571) 272-7882. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2618

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

AH  
10/12/06

  
EDWARD F. URBAN  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2600